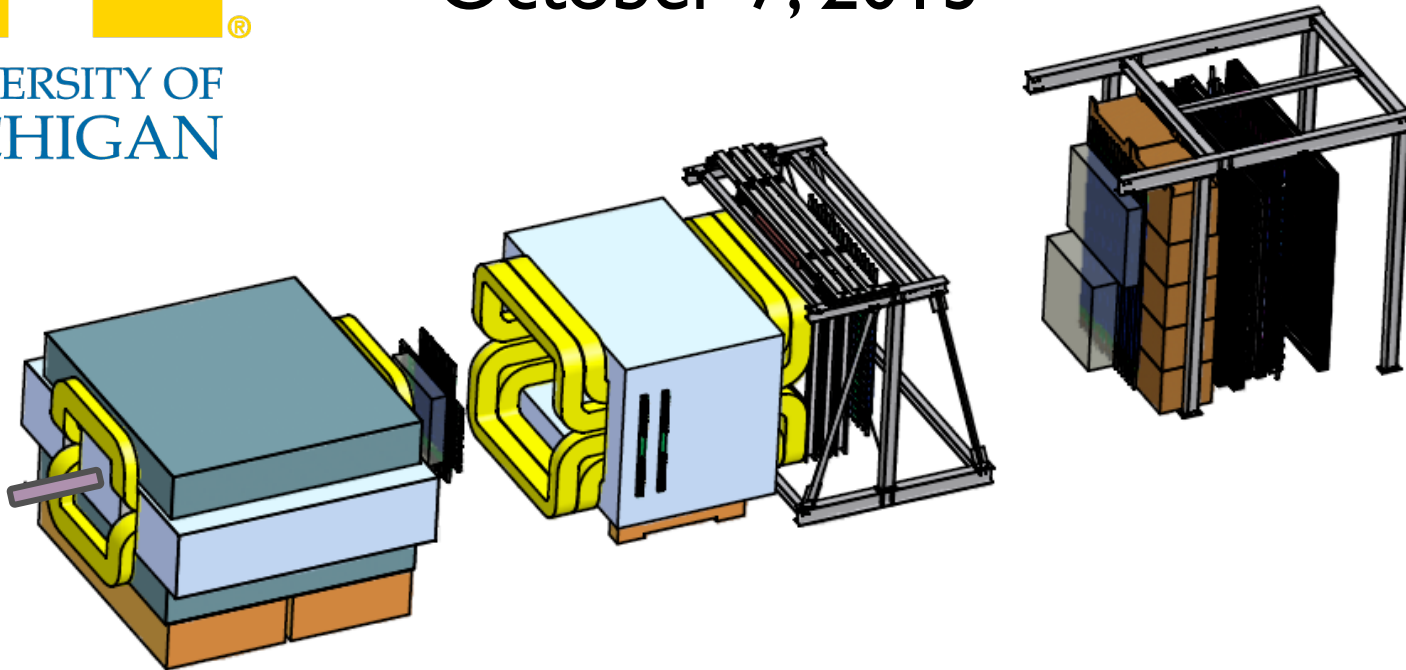


# SeaQuest AEM Report

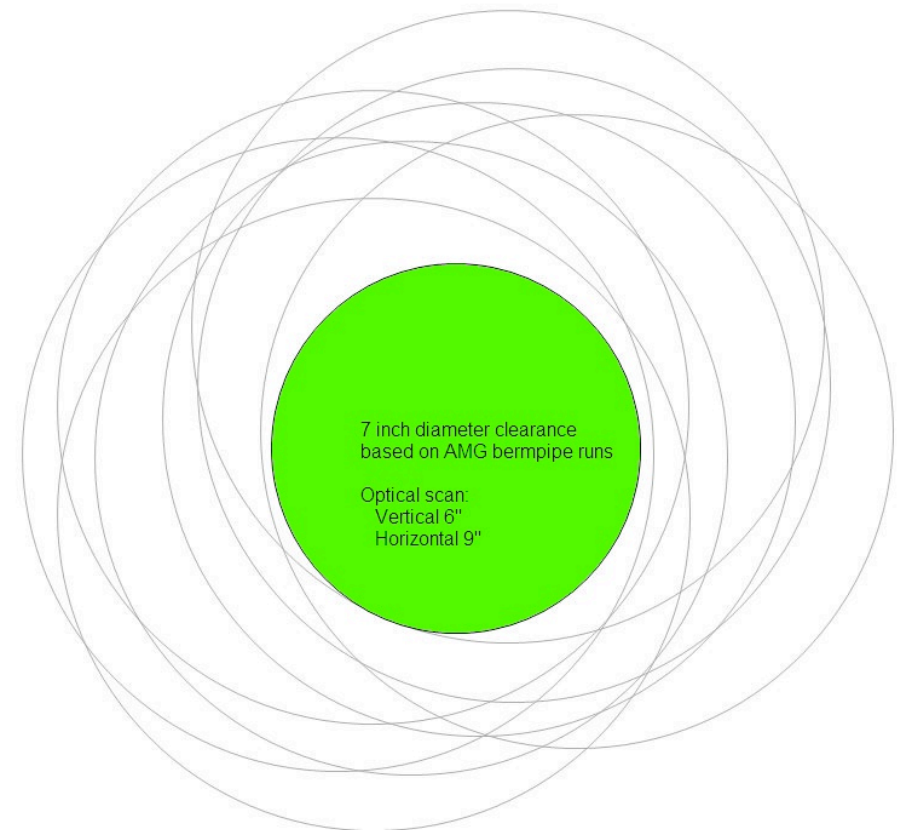
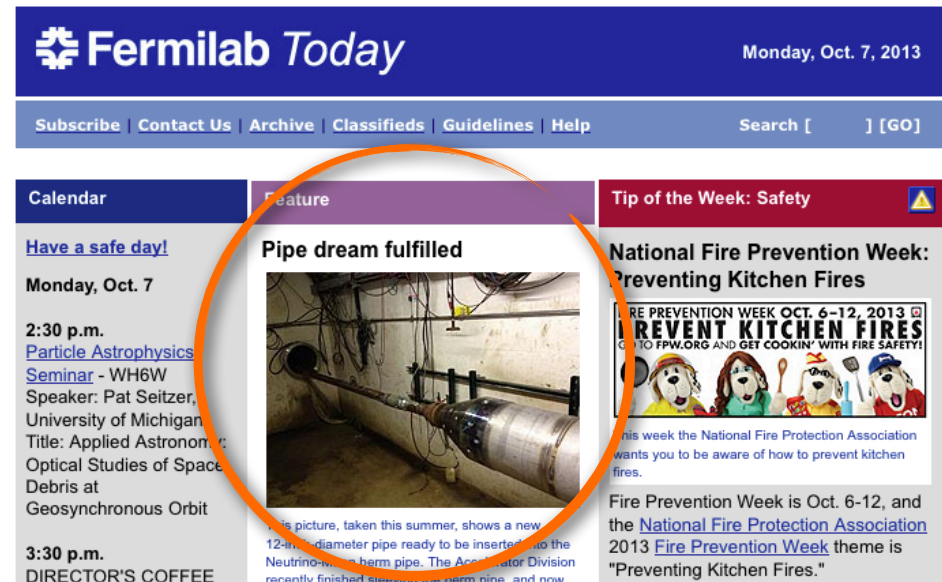


Joshua G. Rubin  
October 7, 2013



# Beamline

- 760' sleeve of beamline complete
- Survey of sleeve indicates 6-7" diameter clearance – more than adequate!
- Additional work on extraction septa in MI necessary
- SeaQuest expecting beam in weeks (not months)

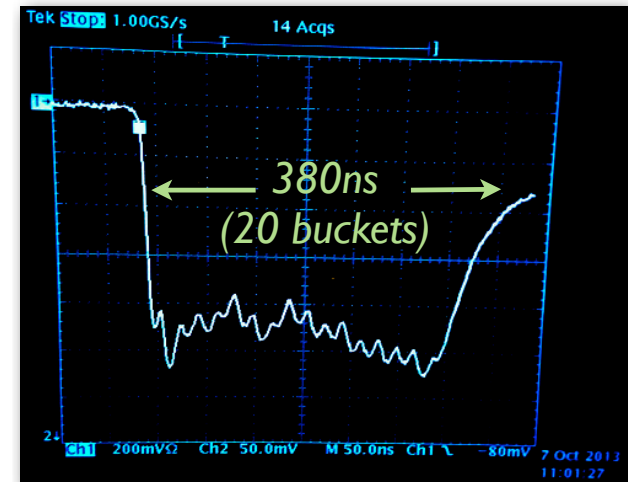
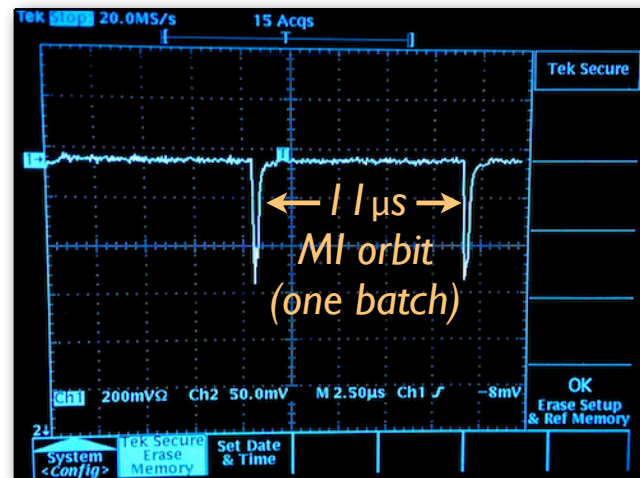


# Cherenkov Intensity Monitor (bucket-by-bucket intensity measurement)

- Most hardware and software complete and installed
- Waiting on revision to charge integrator/readout board to return from fabricators (~1 week)

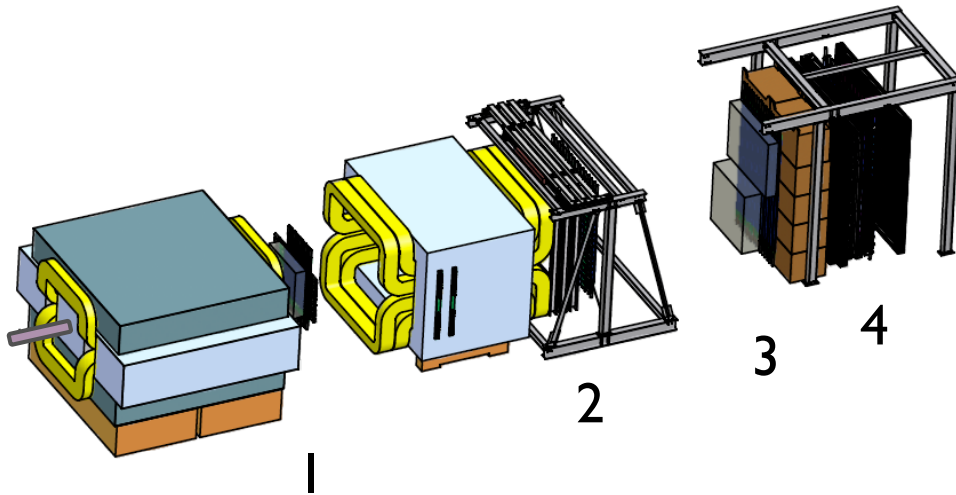


**similar setup installed at MTest with hodoscope**



currently watching output from outside enclosure (long cable limits res.)

# Detectors



- ◆ All detectors in position
- ◆ Chambers surveyed, hodoscopes awaiting survey
- ◆ Spectrometer taking cosmics. Calibration underway
  - Chamber HV training
  - Hodoscope gain matching
- ◆ FPGA matrix trigger installed and tested by injecting test patterns.

# computing to-do

- ◆ “online” event reconstruction complete and will be tested this week for near-real-time physics and efficiency plots (~hundreds events/spill)
- ◆ updated decoder finished and testing this week
- ◆ database server needs to be installed and configured in NM4
- ◆ full online data pipeline needs to be configured



# Take Away

- With the exception of a small amount of final software configuration, a hodoscope survey, and and completed target test (in-progress), SeaQuest is prepared for commissioning beam
- Most ongoing calibration activity would benefit from shifting from cosmic to beam data